

Release notes for ENDF/B Development n-041_Nb_094
evaluation

ENDF
B-VII.dev

April 26, 2017

- checkr Warnings:

1. A previous error halted parsing of the current section
MAT=4128, MF= 1, MT=451 (1): Parsing stopped

```
ERROR(S) FOUND IN MAT=4128, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER      236 TO      327
```

- checkr Errors:

1. A variable is outside the allowed ENDF range
MAT=4128, MF= 1, MT=451 (0): Variable range

```
ERROR(S) FOUND IN MAT=4128, MF= 1, MT=451
MOD =      1 OUT OF RANGE      0 -      0      RECORD NUMBER      236
```

2. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 2, MT=151 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4128, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY      RECORD NUMBER      329
```

3. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 3, MT= 1 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 1
SECTION 3/ 1 NOT IN DIRECTORY      RECORD NUMBER      692
```

4. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 3, MT= 2 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY      RECORD NUMBER      727
```

5. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 3, MT= 4 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY      RECORD NUMBER      758
```

6. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 3, MT= 16 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 16
SECTION 3/ 16 NOT IN DIRECTORY      RECORD NUMBER      782
```

7. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 3, MT= 17 (0): Directory (b)

ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 17
SECTION 3/ 17 NOT IN DIRECTORY RECORD NUMBER 793

8. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 3, MT= 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 22
SECTION 3/ 22 NOT IN DIRECTORY RECORD NUMBER 799

9. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 3, MT= 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 28
SECTION 3/ 28 NOT IN DIRECTORY RECORD NUMBER 813

10. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 3, MT= 32 (0): Directory (b)

ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 32
SECTION 3/ 32 NOT IN DIRECTORY RECORD NUMBER 825

11. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 3, MT= 33 (0): Directory (b)

ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 33
SECTION 3/ 33 NOT IN DIRECTORY RECORD NUMBER 834

12. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 3, MT= 51 (0): Directory (b)

ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 51
SECTION 3/ 51 NOT IN DIRECTORY RECORD NUMBER 842

13. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 3, MT= 52 (0): Directory (b)

ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 52
SECTION 3/ 52 NOT IN DIRECTORY RECORD NUMBER 866

14. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 3, MT= 53 (0): Directory (b)

ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 53
SECTION 3/ 53 NOT IN DIRECTORY RECORD NUMBER 890

15. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 3, MT= 54 (0): Directory (b)

- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 54 | RECORD NUMBER | 913 |
| SECTION 3/ 54 NOT IN DIRECTORY | | |
16. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 3, MT= 55 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 55 | RECORD NUMBER | 935 |
| SECTION 3/ 55 NOT IN DIRECTORY | | |
17. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 3, MT= 56 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 56 | RECORD NUMBER | 957 |
| SECTION 3/ 56 NOT IN DIRECTORY | | |
18. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 3, MT= 57 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 57 | RECORD NUMBER | 977 |
| SECTION 3/ 57 NOT IN DIRECTORY | | |
19. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 3, MT= 58 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 58 | RECORD NUMBER | 997 |
| SECTION 3/ 58 NOT IN DIRECTORY | | |
20. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 3, MT= 59 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 59 | RECORD NUMBER | 1017 |
| SECTION 3/ 59 NOT IN DIRECTORY | | |
21. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 3, MT= 60 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 60 | RECORD NUMBER | 1036 |
| SECTION 3/ 60 NOT IN DIRECTORY | | |
22. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 3, MT= 61 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 61 | RECORD NUMBER | 1055 |
| SECTION 3/ 61 NOT IN DIRECTORY | | |
23. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 3, MT= 62 (0): Directory (b)

- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 62 | |
| | SECTION 3/ 62 NOT IN DIRECTORY | RECORD NUMBER 1073 |
24. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 3, MT= 63 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 63 | |
| | SECTION 3/ 63 NOT IN DIRECTORY | RECORD NUMBER 1091 |
25. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 3, MT= 64 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 64 | |
| | SECTION 3/ 64 NOT IN DIRECTORY | RECORD NUMBER 1109 |
26. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 3, MT= 65 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 65 | |
| | SECTION 3/ 65 NOT IN DIRECTORY | RECORD NUMBER 1126 |
27. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 3, MT= 66 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 66 | |
| | SECTION 3/ 66 NOT IN DIRECTORY | RECORD NUMBER 1142 |
28. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 3, MT= 67 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 67 | |
| | SECTION 3/ 67 NOT IN DIRECTORY | RECORD NUMBER 1158 |
29. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 3, MT= 68 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 68 | |
| | SECTION 3/ 68 NOT IN DIRECTORY | RECORD NUMBER 1173 |
30. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 3, MT= 69 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 69 | |
| | SECTION 3/ 69 NOT IN DIRECTORY | RECORD NUMBER 1188 |
31. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 3, MT= 70 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 70 | RECORD NUMBER | 1203 |
| SECTION 3/ 70 NOT IN DIRECTORY | | |
32. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 3, MT= 71 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 71 | RECORD NUMBER | 1217 |
| SECTION 3/ 71 NOT IN DIRECTORY | | |
33. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 3, MT= 72 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 72 | RECORD NUMBER | 1231 |
| SECTION 3/ 72 NOT IN DIRECTORY | | |
34. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 3, MT= 73 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 73 | RECORD NUMBER | 1244 |
| SECTION 3/ 73 NOT IN DIRECTORY | | |
35. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 3, MT= 74 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 74 | RECORD NUMBER | 1257 |
| SECTION 3/ 74 NOT IN DIRECTORY | | |
36. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 3, MT= 75 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 75 | RECORD NUMBER | 1270 |
| SECTION 3/ 75 NOT IN DIRECTORY | | |
37. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 3, MT= 76 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 76 | RECORD NUMBER | 1282 |
| SECTION 3/ 76 NOT IN DIRECTORY | | |
38. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 3, MT= 77 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 77 | RECORD NUMBER | 1294 |
| SECTION 3/ 77 NOT IN DIRECTORY | | |
39. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 3, MT= 78 (0): Directory (b)

- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 78 | |
| SECTION 3/ 78 NOT IN DIRECTORY | RECORD NUMBER 1306 |
40. Missing a section in directory so your directory is messed up. This error will break everything else
~~MAT=4128~~, MF= 3, MT= 79 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 79 | |
| SECTION 3/ 79 NOT IN DIRECTORY | RECORD NUMBER 1317 |
41. Missing a section in directory so your directory is messed up. This error will break everything else
~~MAT=4128~~, MF= 3, MT= 91 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=4128, MF= 3, MT= 91 | |
| SECTION 3/ 91 NOT IN DIRECTORY | RECORD NUMBER 1328 |
42. Missing a section in directory so your directory is messed up. This error will break everything else
~~MAT=4128~~, MF= 3, MT=102 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=4128, MF= 3, MT=102 | |
| SECTION 3/102 NOT IN DIRECTORY | RECORD NUMBER 1338 |
43. Missing a section in directory so your directory is messed up. This error will break everything else
~~MAT=4128~~, MF= 3, MT=103 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=4128, MF= 3, MT=103 | |
| SECTION 3/103 NOT IN DIRECTORY | RECORD NUMBER 1365 |
44. Missing a section in directory so your directory is messed up. This error will break everything else
~~MAT=4128~~, MF= 3, MT=104 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=4128, MF= 3, MT=104 | |
| SECTION 3/104 NOT IN DIRECTORY | RECORD NUMBER 1381 |
45. Missing a section in directory so your directory is messed up. This error will break everything else
~~MAT=4128~~, MF= 3, MT=105 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=4128, MF= 3, MT=105 | |
| SECTION 3/105 NOT IN DIRECTORY | RECORD NUMBER 1394 |
46. Missing a section in directory so your directory is messed up. This error will break everything else
~~MAT=4128~~, MF= 3, MT=106 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=4128, MF= 3, MT=106 | |
| SECTION 3/106 NOT IN DIRECTORY | RECORD NUMBER 1407 |
47. Missing a section in directory so your directory is messed up. This error will break everything else
~~MAT=4128~~, MF= 3, MT=107 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 3, MT=107 | RECORD NUMBER | 1417 |
| SECTION 3/107 NOT IN DIRECTORY | | |
48. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 4, MT= 2 (0): Directory (b)
- | | | |
|--|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 4, MT= 2 | RECORD NUMBER | 1434 |
| SECTION 4/ 2 NOT IN DIRECTORY | | |
49. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 4, MT= 16 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 4, MT= 16 | RECORD NUMBER | 1651 |
| SECTION 4/ 16 NOT IN DIRECTORY | | |
50. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 4, MT= 17 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 4, MT= 17 | RECORD NUMBER | 1662 |
| SECTION 4/ 17 NOT IN DIRECTORY | | |
51. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 4, MT= 22 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 4, MT= 22 | RECORD NUMBER | 1673 |
| SECTION 4/ 22 NOT IN DIRECTORY | | |
52. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 4, MT= 28 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 4, MT= 28 | RECORD NUMBER | 1684 |
| SECTION 4/ 28 NOT IN DIRECTORY | | |
53. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 4, MT= 32 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 4, MT= 32 | RECORD NUMBER | 1695 |
| SECTION 4/ 32 NOT IN DIRECTORY | | |
54. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 4, MT= 33 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 4, MT= 33 | RECORD NUMBER | 1706 |
| SECTION 4/ 33 NOT IN DIRECTORY | | |
55. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 4, MT= 51 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 4, MT= 51 | RECORD NUMBER | 1717 |
| SECTION 4/ 51 NOT IN DIRECTORY | | |
56. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 4, MT= 52 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 4, MT= 52 | RECORD NUMBER | 1743 |
| SECTION 4/ 52 NOT IN DIRECTORY | | |
57. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 4, MT= 53 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 4, MT= 53 | RECORD NUMBER | 1769 |
| SECTION 4/ 53 NOT IN DIRECTORY | | |
58. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 4, MT= 54 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 4, MT= 54 | RECORD NUMBER | 1795 |
| SECTION 4/ 54 NOT IN DIRECTORY | | |
59. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 4, MT= 55 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 4, MT= 55 | RECORD NUMBER | 1821 |
| SECTION 4/ 55 NOT IN DIRECTORY | | |
60. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 4, MT= 56 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 4, MT= 56 | RECORD NUMBER | 1846 |
| SECTION 4/ 56 NOT IN DIRECTORY | | |
61. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 4, MT= 57 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 4, MT= 57 | RECORD NUMBER | 1871 |
| SECTION 4/ 57 NOT IN DIRECTORY | | |
62. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 4, MT= 58 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 4, MT= 58 | RECORD NUMBER | 1896 |
| SECTION 4/ 58 NOT IN DIRECTORY | | |
63. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 4, MT= 59 (0): Directory (b)

- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=4128, MF= 4, MT= 59 | |
| | SECTION 4/ 59 NOT IN DIRECTORY | RECORD NUMBER 1921 |
64. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 4, MT= 60 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=4128, MF= 4, MT= 60 | |
| | SECTION 4/ 60 NOT IN DIRECTORY | RECORD NUMBER 1946 |
65. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 4, MT= 61 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=4128, MF= 4, MT= 61 | |
| | SECTION 4/ 61 NOT IN DIRECTORY | RECORD NUMBER 1971 |
66. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 4, MT= 62 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=4128, MF= 4, MT= 62 | |
| | SECTION 4/ 62 NOT IN DIRECTORY | RECORD NUMBER 1996 |
67. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 4, MT= 63 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=4128, MF= 4, MT= 63 | |
| | SECTION 4/ 63 NOT IN DIRECTORY | RECORD NUMBER 2021 |
68. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 4, MT= 64 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=4128, MF= 4, MT= 64 | |
| | SECTION 4/ 64 NOT IN DIRECTORY | RECORD NUMBER 2046 |
69. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 4, MT= 65 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=4128, MF= 4, MT= 65 | |
| | SECTION 4/ 65 NOT IN DIRECTORY | RECORD NUMBER 2071 |
70. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 4, MT= 66 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=4128, MF= 4, MT= 66 | |
| | SECTION 4/ 66 NOT IN DIRECTORY | RECORD NUMBER 2096 |
71. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 4, MT= 67 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 4, MT= 67 | RECORD NUMBER | 2121 |
| SECTION 4/ 67 NOT IN DIRECTORY | | |
72. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 4, MT= 68 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 4, MT= 68 | RECORD NUMBER | 2146 |
| SECTION 4/ 68 NOT IN DIRECTORY | | |
73. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 4, MT= 69 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 4, MT= 69 | RECORD NUMBER | 2171 |
| SECTION 4/ 69 NOT IN DIRECTORY | | |
74. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 4, MT= 70 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 4, MT= 70 | RECORD NUMBER | 2196 |
| SECTION 4/ 70 NOT IN DIRECTORY | | |
75. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 4, MT= 71 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 4, MT= 71 | RECORD NUMBER | 2221 |
| SECTION 4/ 71 NOT IN DIRECTORY | | |
76. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 4, MT= 72 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 4, MT= 72 | RECORD NUMBER | 2246 |
| SECTION 4/ 72 NOT IN DIRECTORY | | |
77. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 4, MT= 73 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 4, MT= 73 | RECORD NUMBER | 2269 |
| SECTION 4/ 73 NOT IN DIRECTORY | | |
78. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 4, MT= 74 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 4, MT= 74 | RECORD NUMBER | 2292 |
| SECTION 4/ 74 NOT IN DIRECTORY | | |
79. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 4, MT= 75 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 4, MT= 75 | RECORD NUMBER | 2315 |
| SECTION 4/ 75 NOT IN DIRECTORY | | |
80. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 4, MT= 76 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 4, MT= 76 | RECORD NUMBER | 2338 |
| SECTION 4/ 76 NOT IN DIRECTORY | | |
81. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 4, MT= 77 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 4, MT= 77 | RECORD NUMBER | 2361 |
| SECTION 4/ 77 NOT IN DIRECTORY | | |
82. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 4, MT= 78 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 4, MT= 78 | RECORD NUMBER | 2384 |
| SECTION 4/ 78 NOT IN DIRECTORY | | |
83. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 4, MT= 79 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 4, MT= 79 | RECORD NUMBER | 2407 |
| SECTION 4/ 79 NOT IN DIRECTORY | | |
84. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 4, MT= 91 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 4, MT= 91 | RECORD NUMBER | 2430 |
| SECTION 4/ 91 NOT IN DIRECTORY | | |
85. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 5, MT= 16 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 5, MT= 16 | RECORD NUMBER | 2454 |
| SECTION 5/ 16 NOT IN DIRECTORY | | |
86. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 5, MT= 17 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4128, MF= 5, MT= 17 | RECORD NUMBER | 2513 |
| SECTION 5/ 17 NOT IN DIRECTORY | | |
87. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 5, MT= 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=4128, MF= 5, MT= 22
SECTION 5/ 22 NOT IN DIRECTORY RECORD NUMBER 2539

88. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 5, MT= 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=4128, MF= 5, MT= 28
SECTION 5/ 28 NOT IN DIRECTORY RECORD NUMBER 2732

89. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 5, MT= 32 (0): Directory (b)

ERROR(S) FOUND IN MAT=4128, MF= 5, MT= 32
SECTION 5/ 32 NOT IN DIRECTORY RECORD NUMBER 2835

90. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 5, MT= 33 (0): Directory (b)

ERROR(S) FOUND IN MAT=4128, MF= 5, MT= 33
SECTION 5/ 33 NOT IN DIRECTORY RECORD NUMBER 2902

91. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4128, MF= 5, MT= 91 (0): Directory (b)

ERROR(S) FOUND IN MAT=4128, MF= 5, MT= 91
SECTION 5/ 91 NOT IN DIRECTORY RECORD NUMBER 2949

- **psyche** Warnings:

1. Non-threshold reaction with Q value differing from PSYCHE's expectations
FILE 3 / SECTION 103 / THE CALCULATED Q 1.77737E+06 DISSAGREES WITH THE GIVEN Q 1.67926E+06 (0): Iffy Q

FILE 3
SECTION 103
THE CALCULATED Q 1.77737E+06 DISSAGREES WITH THE GIVEN Q 1.67926E+06

- **fudge-4.0** Warnings:

1. Missing a channel with a particular angular momenta combination
resonances / resolved / MultiLevelBreitWigner (Error # 0): missingResonanceChannel

WARNING: Missing a channel with angular momenta combination L = 0, J = 4.5 and S = 4.5 for "capture"

2. Potential scattering hasn't converted, you need more L's!
resonances / resolved (Error # 1): potentialScatteringNotConverged

WARNING: Potential scattering hasn't converged by L=0 at E=28.0 eV, xs[0]/xs[0]=100.0% > 0.1%

3. The URR for this spin group needs higher energy resolution for correct representation of the average cross section
resonances / unresolved (Error # 0): URRinsufficientEnergyGrid

WARNING: More points needed in L=0 J=5.5 unresolved widths between 28. eV and 1.e2 eV
 WARNING: More points needed in L=0 J=6.5 unresolved widths between 28. eV and 1.e2 eV
 WARNING: More points needed in L=1 J=4.5 unresolved widths between 28. eV and 1.e2 eV
 WARNING: More points needed in L=1 J=5.5 unresolved widths between 28. eV and 1.e2 eV
 ... plus 8 more instances of this message

4. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 0: total (Error # 0): CS Sum.

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.37%

• fudge-4.0 Errors:

1. Calculated and tabulated Q values disagree.
reaction label 31: n[multiplicity:'2'] + Nb93 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -7204286.176574707 eV vs -7.2342e6 eV!

2. Calculated and tabulated Q values disagree.
reaction label 32: n[multiplicity:'3'] + Nb92 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -16035544.39439392 eV vs -1.60712e7 eV!

3. Calculated and tabulated Q values disagree.
reaction label 33: n + H1 + Zr93 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6513177.516723633 eV vs -6544040. eV!

4. Calculated and tabulated Q values disagree.
reaction label 34: n + H2 + Zr92 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -11023086.78025818 eV vs -1.09706e7 eV!

5. Calculated and tabulated Q values disagree.
reaction label 35: n + H3 + Zr91 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -13400650.647995 eV vs -1.34252e7 eV!

6. Calculated and tabulated Q values disagree.
reaction label 36: Nb95 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 8511972.186248779 eV vs 8490790. eV!

7. Calculated and tabulated Q values disagree.
reaction label 37: n + He4 + Y90 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -2278700.666015625 eV vs -2308290. eV!

8. Calculated and tabulated Q values disagree.
reaction label 38: H1 + Zr94_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 1707937.196426392 eV vs 1679260. eV!

9. Calculated and tabulated Q values disagree.
reaction label 39: H2 + Zr93_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -4288611.415786743 eV vs -4233920. eV!

10. Calculated and tabulated Q values disagree.
reaction label 40: H3 + Zr92_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -4765853.839645386 eV vs -4785460. eV!

11. Calculated and tabulated Q values disagree.
reaction label 41: He3 + Y92_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -8387817.045639038 eV vs -8400930. eV!

12. Calculated and tabulated Q values disagree.
reaction label 42: He4 + Y91_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 5650186.666168213 eV vs 5.6366e6 eV!

- njoy2012 Warnings:

1. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (0): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 16
only mf4/mf5 provided

2. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (1): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 17
only mf4/mf5 provided

3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (2): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 22
only mf4/mf5 provided

4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (3): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 28
only mf4/mf5 provided

5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (4): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 32
only mf4/mf5 provided

6. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (5): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 33
only mf4/mf5 provided

7. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (6): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 91
only mf4/mf5 provided